AK

Notice of Allowability	Application No.	Applicant(s)	
	10/771,855	ORLOWSKI ET AL.	
	Examiner	Art Unit	
	Stephen W. Smoot	2813	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>applicant's amendment filed on 20 September 2005</u> .			
2. The allowed claim(s) is/are <u>1-10 and 27-42</u> .			
 Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN 	e been received. e been received in Application No cuments have been received in this i	national stage applica	
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF			
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 			
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amenda 8. Examiner's Stateme 9. Other	(PTO-413), le nent/Comment	·
Stephen W. Smoot Patent Examiner Art Unit 2813			

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DETAILED ACTION

This Office action is in response to applicant's amendment filed on 20 September 2005.

Allowable Subject Matter

- 1. Claims 1-10, 27-42 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
 - Claims 1-10, 27-32 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method that includes the steps of forming a first layer that includes an oxygen-rich semiconductor layer over a substrate, epitaxially growing a second layer that includes a semiconductor layer directly on the first layer, converting the first layer to an oxide layer, and forming a transistor with a channel that is formed only in the second layer;
 - Claims 33-39 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method that includes

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the steps of forming a first layer that includes an oxygen-rich semiconductor layer over a substrate, epitaxially growing a second layer that includes a semiconductor layer directly on the first layer, converting the first layer to an oxide layer, and forming a gate dielectric on the second layer, wherein there is no semiconductor layer between the gate dielectric layer and the second layer; and

• Claims 40-42 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method that includes the steps of forming a first layer that includes an oxygen-rich semiconductor layer over a substrate and selectively between first and second isolation regions, selectively epitaxially growing a second layer that includes a semiconductor layer directly on the first layer, and converting the first layer to an oxide layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen W. Smoot whose telephone number is 571-272-1698. The examiner can normally be reached on M-F (8:00 am to 4:30 pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SWS